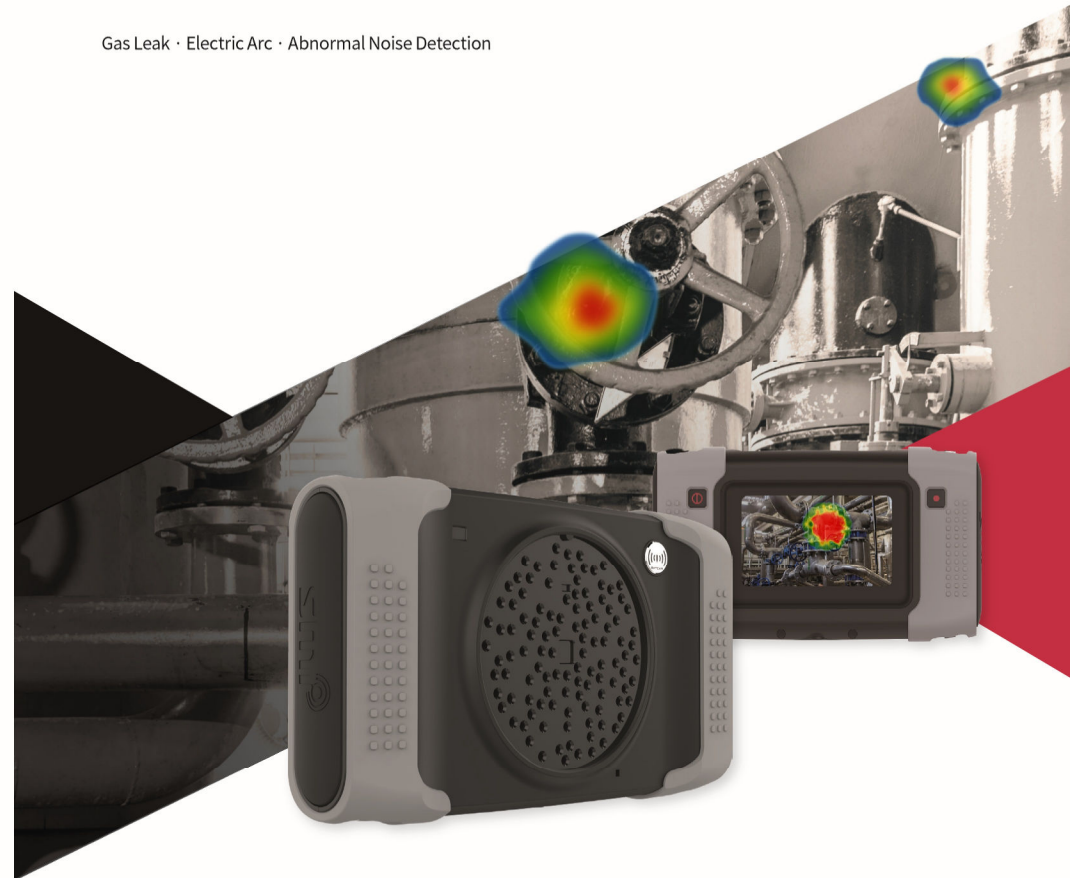


Ultrasonic / Sound Camera

# BATCAM 2.0

Gas Leak · Electric Arc · Abnormal Noise Detection

**( ( ( ( ) ) ) ) BATCAM**



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**Smi** SM Instruments

# Ultrasonic / Sound Camera BATCAM 2.0

## See What You've Been Missing Visualize What You Can Hear and What You Can't Gas Leaks, Electric Faults, Vibration and Mechanical Anomalies

BATCAM 2.0 is the lightest and smallest ultrasonic and acoustic sound camera. This rugged, versatile tool can help you quickly and easily identify a variety of undesirable industrial conditions. With pinpoint accuracy the BATCAM 2.0 allows you to instantly see audible and ultrasonic noises that are hard to detect. With 112 MEMS based precision microphones, the BATCAM 2.0 will help you clearly see what you've been missing.



- Easy to Use**
- Enable to Make Quick Diagnosis**
- Easy to Share the Result**

### Characteristic

#### Hardware

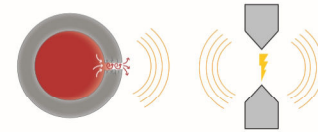
- 112 Digital MEMS Microphones
- Measurement of 96,000 Samples per Second
- 5 inch Touch Screen
- Available 4 Hours
- Including Distance Range Sensor
- Adjustable Lighting

#### Software

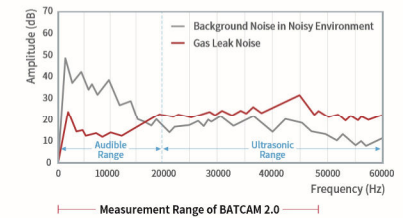
- Real-Time Visualization of Sound
- Desired Frequency Range Filtering
- Image Averaging Function
- Video and Image Storage
- Improved Accuracy according to the Distance

### Principle of Ultrasound Measurement

When a gas leak occurs, it results in ultrasonic wave element, higher than the audible frequency. Ultrasonic wave element is also made when electrical arc occurs. Therefore, in noisy environment, ultrasonic wave element can be measured to determine whether or not gas leak and electric arc have occurred and where they have occurred. BATCAM 2.0 has detected a leakage rate of 110 cc/min (0.0039 CFM) at a distance of 10 m and 152 cc/min (0.0053 CFM) at a distance of 20 m. At a closer distance, BATCAM 2.0 can measure smaller flow rates.



[ When a Gas Leak Occurs ] [ When an Electric Arc Occurs ]

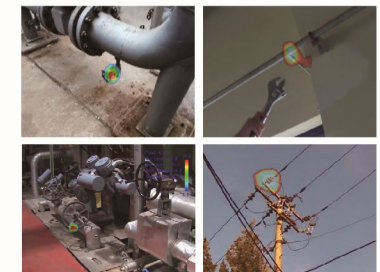


### Specifications

|                                  |                         |
|----------------------------------|-------------------------|
| <b>Sensor(Microphone)</b>        | 112 Ch Digital MEMS     |
| <b>Effective Frequency Range</b> | 2 k ~ 48 kHz            |
| <b>Microphone Sensitivity</b>    | -41 dBFS                |
| <b>Signal-To-Noise Ratio</b>     | 66 dB(A)                |
| <b>Camera Frame Speed</b>        | 25 FPS                  |
| <b>Detection Distance</b>        | 0.3 m ~ 50 m            |
| <b>Display Type</b>              | 5" Mono Color LCD       |
| <b>Battery Operation Time</b>    | 4 Hours                 |
| <b>Product Size</b>              | 237 mm x 146 mm x 56 mm |
| <b>Product Weight</b>            | 1.2 kg                  |
| <b>Operating Temperature</b>     | -20 ~ 50 °C             |

### Application Example

- Visualize Gas Leaks, Electric Faults, and Mechanical Condition Monitoring
- Measurement of BSR Noise and Identification of Causes
- Noise Diagnosis and Evaluation in Industrial Sites



### BATCAM 1.0

- Measured specifically for ultrasonic signals at 40 kHz
- 30 Ch Analog Ultrasound Sensor
- Measurement of 192,000 Samples per Second
- 7 inch Touch Screen

